

“MURI BUSH”

PUKERUA BAY, PORIRUA CITY

Map: NZTopo50-BP32 Paraparaumu.

Grid reference: centred on 592560.

G.P.S. grid reference: 41 01.941S 174 53.606E.

Catchment: “Muri Bush Stream”.

Elevation range: c. 23 m – 67 m above sea level.

Landform: two gullies with intervening spur.

Geology: alternating dark grey argillite and greywacke sandstone. Rare limestone bands. Volcanic bands. Intensely sheared and semi-schistose. Wellington greywackes. Balfour Series, Triassic. *NZ Geological Map 1: 250,000*. NZ Geological Survey. Sheet 12, 1st edition. 1975.

Soils: Porirua-Pukerua soils. *Soils of Wellington District*. Soil Bureau, D.S.I.R. 1960.

Area: c. 4 ha.

Aspect: southeast and northwest (the main stream flows c. northeast).

Rainfall: c. 1200 mm p.a. (T Coats pers. comm.).

Ecological District: Wellington Ecological District 39.01, adjacent to boundary with Cook Strait Ecological District 39.02.

Forest classification: coastal broadleaf forest; shrubland; sedgeland; flaxland.

Tenure: private – Ted Coats and Cath Pearson, 7 SH1, Pukerua Bay.

Territorial Local Authority: Porirua City Council.

Sources of information

1. C Ogle. 1970-80s era.
2. Hanford, P., Ravine, D., Hulme-Moir, A. May 2012; *Restoration Plan for Muri Bush, Pukerua Bay*. P A Hanford & Associates Ltd, Paekakariki.
3. Ted Coats and Cath Pearson.
4. J C Horne, 28.8.2013, 2-hour reconnaissance.
5. P Enright, 7.9.2013, 5.5 hours, listing round the tracks and in the wetland; 26.10.2013, 3 hours.
6. Wellington Botanical Society and M Heine, 2.11.2013, 4 hours.

Observations

Control of pest plants and other weeds includes tradescantia, climbing asparagus, karo, ginger, mile-a-minute, pampas, boneseed, *Asparagus asparagoides* and karaka.

Possum bait stations – 5; rat bait stations – 10; DOC 250 stoat traps – 2.

Abbreviations

agg = aggregate

= indigenous species not naturally occurring in Wellington Ecological District 39.01

? = id to be confirmed

f = flowering at date listed

h = herbarium specimen lodged

(p) = planted

p+ = present in the area and also planted

s = in seed at time listed

(unc) = only one or two plants or locations seen

var. = variety

LIST 1: INDIGENOUS VASCULAR PLANTS

Botanical name	Māori name	Common name
Gymnosperm trees and shrubs		
<i>Dacrycarpus dacrydioides</i> (p)	kahikatea	kahikatea
Monocotyledonous trees and shrubs		
<i>Rhopalostylis sapida</i>	nīkau	nīkau
Dicotyledonous trees and shrubs		
<i>Alectryon excelsus</i> subsp. <i>excelsus</i>	tītoki	tītoki
<i>Beilschmiedia tawa</i>	tawa	tawa
<i>Brachyglottis repanda</i>	rangiora	rangiora
<i>Coprosma lucida</i>	karamu	karamu
<i>Coprosma propinqua</i> subsp. <i>propinqua</i>		a coprosma sp.
<i>Coprosma repens</i> (f 26.10.13)	taupata	taupata
<i>Coprosma rhamnoides</i>		a coprosma sp.
<i>Coprosma robusta</i>	karamu	karamu
<i>Coprosma propinqua</i> x <i>C. robusta</i>		a coprosma hybrid
<i>Coprosma rhamnoides</i> x <i>C.?</i>		a coprosma hybrid
<i>Coriaria arborea</i>	tutu	tutu
# <i>Corynocarpus laevigatus</i>	karaka	karaka
<i>Dysoxylum spectabile</i>	kohekohe	kohekohe
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange	hangehange
<i>Griselinia lucida</i> (f 26.10.13)	puka	broadleaf
<i>Hebe stricta</i>	koromiko	koromiko
<i>Hedycarya arborea</i>	porokaiwhiri	pigeonwood
# <i>Hoheria populnea</i>	houhere	lacebark

Knightsia excelsa	rewarewa	rewarewa
Kunzea ericoides agg.	kānuka	kānuka
Leptospermum scoparium	mānuka	mānuka
Leucopogon fasciculatus	mingimingi	big mingimingi
Melicope ternata	wharangi	wharangi
Melicytus ramiflorus	māhoe	māhoe
# Metrosideros excelsa	pōhutakawa	pōhutukawa
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	māpou
Olearia paniculata	akiraho	akiraho
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum eugenioides (unc)	tarata	lemonwood
# Pittosporum crassifolium	karo	karo
Pittosporum tenuifolium (unc)	kōhūhū	kōhūhū
Pseudopanax arboreus	whauwhaupaku	five finger
Pseudopanax crassifolius	horoeaka	lancewood
# Pseudopanax lessonii (unc)		
# Pseudopanax crassifolius x P lessonii		Pseudopanax hybrids
Raukawa edgerleyi		raukawa
Solanum laciniatum (f 26.10.13)	poroporo	poroporo
Streblus banksii	tūrepo	large-leaved milktree

Monocotyledonous lianes

Freycinetia banksii	kiekie	kiekie
Ripogonum scandens	kareao	supplejack

Dicotyledonous lianes and related trailing plants

Calystegia tuguriorum	pōwhiwhi	native bindweed
Clematis forsteri (f 26.10.13)	pikiarero	small white clematis
Clematis paniculata (unc)	puawānanga	white clematis
Metrosideros fulgens	akakura	scarlet rātā
Metrosideros perforata	akatea	clinging rātā
Muehlenbeckia australis	pōhuehue	pōhuehue
Muehlenbeckia complexa	pōhuehue	pōhuehue
Parsonsia capsularis ? (no flowers)		a NZ jasmine sp.
Parsonsia heterophylla	kaihua	a NZ jasmine sp.
Tetragonia implexicoma	kōkihi	NZ spinach

Lycopods

None seen

Ferns, psilopsids and quillworts

<i>Adiantum cunninghamii</i>	huruhuru tapairu	a maidenhair fern sp.
<i>Arthropteris tenella</i> (unc)		jointed fern
<i>Asplenium bulbiferum</i>	manamana	hen & chickens fern
<i>Asplenium flabellifolium</i> (unc)		necklace fern
<i>Asplenium flaccidum</i>	makawe	hanging spleenwort
<i>Asplenium gracillimum</i>		an asplenium sp.
<i>Asplenium hookerianum</i> var.		Hooker's spleenwort
<i>Asplenium oblongifolium</i>	huruhuruwhenua	shining spleenwort
<i>Asplenium polyodon</i>	petako	sickle spleenwort
<i>Blechnum chambersii</i>	nini	lance fern
<i>Blechnum filiforme</i>	pānako	thread fern
<i>Blechnum minus</i> (of NZ authors)		swamp kiokio
<i>Blechnum novae-zelandiae</i>	kiokio	kiokio
<i>Blechnum triangularifolium</i> (unc)		a blechnum sp.
<i>Cyathea dealbata</i>	ponga	silver fern
<i>Cyathea medullaris</i>	mamaku	mamaku
<i>Histiopteris incisa</i>	mātātā	water fern
<i>Hypolepis ambigua</i>	rarauhi nehenehe	a hypolepis sp.
<i>Hypolepis dicksonioides</i>		giant hypolepis
<i>Lastreopsis glabella</i>		smooth shield fern
<i>Lastreopsis hispida</i>	pongaweka	hairy fern
<i>Lastreopsis microsora</i>		a lastreopsis sp.
<i>Lastreopsis velutina</i>		velvet fern
<i>Microsorium pustulatum</i>		
subsp. <i>pustulatum</i>	kōwaowao	hound's tongue
<i>Microsorium scandens</i>	mokimoki	scented fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Pneumatopteris pennigera</i>	pākau	gully fern
<i>Polystichum neozelandicum</i>		
subsp. <i>zerophyllum</i>	pikopiko	a shield fern sp.
<i>Pteridium esculentum</i>	rarauhe	bracken
<i>Pteris macilenta</i>		sweet brake
<i>Pteris tremula</i>	turawera	shaking brake
<i>Pyrrhosia eleagnifolia</i>	ota	leather-leaf fern

Orchids

<i>Acianthus sinclairii</i>		heart-leaved orchid
<i>Microtis unifolia</i>	maikaika	onion-leaved orchid
<i>Pterostylis alobula</i> (unc)		a greenhood sp.
<i>Pterostylis banksii</i>	tutukiwi	a greenhood sp.
<i>Pterostylis cardiostigma</i>		a greenhood sp.
<i>Thelymitra</i> sp.	maīkuku	a sun orchid sp.

Grasses

Austroderia toetoe	toetoe	toetoe
Microlaena avenacea		bush rice grass
Oplismenus hirtellus subsp. imbecillus		an oplismenus sp.
Poa anceps agg.		broad-leaved poa
Poa cita	wī	silver tussock
Rytidosperma gracile		a rytidosperma sp.

Sedges

Carex dissita (unc)		a carex sp.
Carex flagellifera	mānaia	Glen Murray tussock
Carex geminata agg. "large"	rautahi	cutty 'grass'
Carex solandri (unc)		a carex sp.
Carex sp. (unnamed "raotest") ?		a carex sp.
Cyperus ustulatus	upoko tangata	giant umbrella sedge
Ficinia nodosa	wīwī	leafless sedge
Gahnia pauciflora	māpere	cutting sedge
Isolepis prolifer		three-square
Uncinia uncinata	matau a Māui	hook sedge

Rushes and allied plants

Juncus planifolius		flat-leaved rush
Luzula picta var. picta		a woodrush sp.

Monocotyledonous herbaceous plants, other than orchids, grasses, sedges, rushes

Arthropodium cirratum (p)	rengarenga	renga lily
Astelia solandri	kōwharawhara	perching lily
Dianella nigra	tūrutu	blueberry
Phormium cookianum subsp. hookeri	wharariki	coastal flax
Phormium tenax	harakeke	swamp flax

Composite herbaceous plants

None recorded

Dicotyledonous herbaceous plants, other than Composites

Cardamine sp. (no flrs – (possibly adventive))		a cress sp.
Dichondra repens		kidney weed
Hydrocotyle heteromeria		a pennywort sp.
Pelargonium inodorum (unc)		a pelargonium sp.

Stellaria parviflora

kohukohu

NZ chickweed

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LIST 2: INDIGENOUS LIVERWORTS

Lejeunea hodgsoniana

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LIST 3: ADVENTIVE VASCULAR PLANTS

Gymnosperm trees and shrubs

Cupressus macrocarpa

macrocarpa

Pinus muricata

bishop pine

Pinus radiata

Monterey pine

Dicotyledonous trees and shrubs

Chamaecytisus palmensis

tree lucerne

Chrysanthemoides monilifera

subsp. *monilifera* (f 1/9/13)

boneseed

Cytisus scoparius

broom

Elaeagnus x reflexa

elaeagnus

Ficus macrophylla

Moreton Bay fig

Fuchsia magellanica (unc) (f 7/9/13)

hardy fuchsia

Genista monspessulana (f 7/9/13)

Montpellier broom

Lupinus arboreus (unc)

tree lupin

Phytolacca octandra

inkweed

Salix sp.

a willow sp.

Syzygium paniculatum

scrub cherry

Ulex europaeus

gorse

Ferns and fern allies

Adiantum raddianum

an adiantum sp.

Nephrolepis cordifolia

tuber ladder fern

Selaginella kraussiana (unc)

selaginella

Dicotyledonous lianes and related trailing plants

Asparagus asparagoides (unc) (f 7/9/13)

smilax

Asparagus scandens

climbing asparagus

Dipogon lignosus (f 7/9/13)

mile-a-minute

Hedera helix subsp *helix*

ivy

Lathyrus latifolius
 Senecio angulatus
 Vicia hirsuta (f 26/10/13)
 Vicia sativa (f 26/10/13)

everlasting pea
 Cape ivy
 hairy vetch
 vetch

Orchids

None seen

Grasses

Agrostis stolonifera
 Ammophila arenaria
 Anthoxanthum odoratum
 Bromus lithobius
 Bromus willdenowii
 Cortaderia selloana
 Dactylis glomerata
 Ehrharta erecta
 Holcus lanatus
 Lolium perenne
 Phyllostachys nigra var. nigra

creeping bent
 marram grass
 sweet vernal
 Chilean brome
 prairie grass
 pampas grass
 cocksfoot
 veld grass
 Yorkshire fog
 perennial rye grass
 black bamboo

Sedges

None seen

Rushes and allied plants

None seen

Monocotyledonous herbaceous plants, other than orchids, grasses, sedges, rushes

Agapanthus praecox subsp. orientalis
 Allium triquetrum (f 26/10/13)
 Crocosmia x crocosmifolia
 Hedychium flavescens/gardnerianum
 Iris foetidissima
 Leucojum aestivum (unc) (f 1/9/13)
 Narcissus sp./hybrid
 Sisyrinchium iridifolium (f 26/10/13)
 Tradescantia fluminensis
 Zantedeschia aethiopica

agapanthus
 onion weed
 montbretia
 wild ginger
 stinking iris
 snowdrop
 a narcissus entity
 purple-eyed grass
 wandering willie
 arum lily

Composite herbaceous plants

Arctotheca calendula (f 7/9/13)
 Bellis perennis

Cape daisy
 English daisy

Conyza sumatrensis
Crepis capillaris (f 7/9 13)
Gnaphalium coarctatum
Hypochaeris radicata
Sonchus oleraceus (f 7/9/13)
Taraxacum officinale (f 7/9/13)

fleabane
 smooth hawkbeard
 cudweed
 catsear
 sow thistle
 dandelion

Dicotyledonous herbs other than Composites

Acanthus mollis
Anagalis arvensis subsp. *arvensis*
 var. *arvensis* (f 26/10/13)
Brassica fruticulosa (f 7/9/13)
Capsella bursa-pastoris (f 7/9/13)
Cardamine sp. (no flrs – possibly indigenous)
Chenopodium album
Cymbalaria muralis (f 26/10/13)
Daucus carota (f 7/9/13)
Euphorbia peplus
Fumaria muralis subsp. *muralis* (f 26/10/13)
Galium aparine (f 7/9/13)
Geranium molle (f 26/10/13)
Geranium robertianum (f 26/10/13)
Gunnera tinctoria
Hydrangea macrophylla
Oxalis articulata (f 26/10/13)
Oxalis incarnata (f 7/9/13)
Myosotis sylvatica (f 26/10/13)
Plantago lanceolata
Plantago major
Plectranthus ciliatus
Ranunculus repens
Rumex acetosella
Rumex obtusifolius
Rumex sagittatus (f 7/9/13)
Silene gallica (f 26/10/13)
Solanum chenopodioides (f 7/9/13)
Solanum nigrum (f 7/9/13)
Spergularia arvensis
Stachys arvensis (unc) (f 7/9/13)
Stellaria media (f 7/9/13)
Trifolium dubium (f 26/10/13)
Trifolium pratense (f 28/10/13)
Trifolium repens (f 26/10/13)

bear's breeches

 scarlet pimpernel
 twiggy turnip
 shepherd's purse
 a cress sp.
 fathen
 ivy-leaved toadflax
 wild carrot
 milkweed
 scrambling fumitory
 cleavers
 dove's-foot cranesbill
 herb Robert
 Chilean rhubarb
 hydrangea
 an oxalis sp.
 wood sorrel
 forget-me-not
 narrow-leaved plantain
 broad-leaved plantain
 plectranthus
 creeping buttercup
 sheep sorrel
 broad-leaved dock
 climbing dock
 catchfly
 velvet nightshade
 black nightshade
 spurrey
 stagger weed
 chickweed
 suckling clover
 red clover
 white clover

Veronica persica (f 7/9/13)

scrambling speedwell

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LIST 4: NATIVE BIRDS

Anthornis melanura	korimako	bellbird
Chrysococcyx lucidus	pipiwharauoa	shining cuckoo
Circus approximans	kahu	marsh harrier
Falco novaeseelandiae	kārearea	N.Z. falcon
Gerygone igata	riroriro	grey warbler
Hemiphaga novaeseelandiae		
novaeseelandiae	kererū	NZ woodpigeon
Larus dominicanus	kāroro	black-backed gull
Nestor meridionalis septentrionalis	kākā	North Island kākā
Ninox novaeseelandiae	ruru	morepork
Prothemadera novaeseelandiae		
novaeseelandiae	tūī	tūī
Rhipidura fulginosa placabilis	pīwakawaka	N.I. fantail
Todiramphus sancta vagans	kōtare	kingfisher
Vanellus miles novaehollandiae		spur-winged plover
Zosterops lateralis	tauhou	waxeye

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LIST 5: INTRODUCED BIRDS:

Carduelis carduelis	goldfinch
Carduelis chloris	greenfinch
Fringilla coelebs	chaffinch
Passer domesticus	house sparrow
Platycercus eximius	Eastern rosella
Prunella modularis	dunnock
Sturnus vulgaris	starling
Turdus merula	blackbird
Turdus philomelos	song thrush

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NOTES